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Dictionary: Last updated 07/18/2008 / Priority:

[Document Name] Abstract**[Abstract]**

[A technical problem] A life insurance company, a drug company, a food company, etc. offer the genetic-screening data practical use method which can be used conveniently.

[Means for Solution] The stage where the management organization (life insurance company) 18 inspects an individual's 17 gene information, The stage where gene information and the clinical history information of the individual 17 concerned create the gene information file 15 recorded by corresponding excluding the information which specifies the individual 17 concerned, It has the stage where a management organization provides development of Medical Science Division, medicine, and food or a manufacture organization (drug company 19 and food company 20 grade) with the gene information and the clinical history information in this gene information file 15.

[A selection figure] drawing 1

[Translation done.]

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Notes:

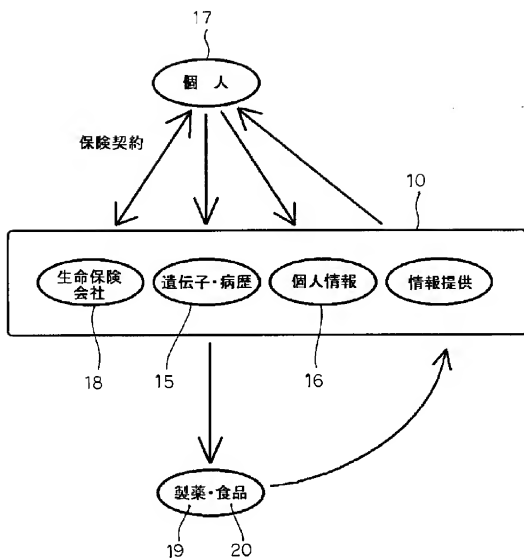
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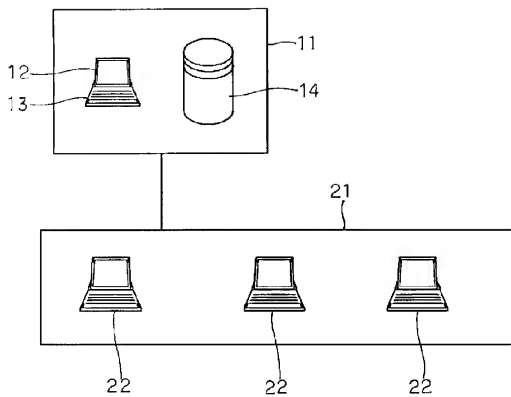
Dictionary: Last updated 07/18/2008 / Priority:

[Document Name] Drawings

[Drawing 1]



[Drawing 2]



[Translation done.]

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[Document Name] Description

[Title of the Invention] The genetic-screening data practical use method

[Claim(s)]

[Claim 1] The stage where a management organization inspects individual gene information, and the stage which creates the gene information file on which said gene information and the clinical history information of the individual concerned were recorded by corresponding excluding the information which specifies the individual concerned, The genetic-screening data practical use method characterized by having the stage where said management organization provides development of Medical Science Division, medicine, and food or a manufacture organization with the gene information and the clinical history information in this gene information file.

[Claim 2] It is the genetic-screening data practical use method of Claim 1 characterized by acquiring the royalty of this gene information and said clinical history information corresponding to it while the management organization concerned conducts said individual's genetic screening, when said individual contracts with said management organization, or when the contract is already made.

[Claim 3] Claim 1 or the genetic-screening data practical use method of Claim 2 characterized by having the stage where said development or a manufacture organization provides said individual with the information about the means aiming at the prevention or control, and prevention of sick recovery and advance concerning said clinical history, medicine, or food.

[Claim 4] The stage where said management organization reports a genetic-screening result to said individual who conducted genetic screening, Claim 1, Claim 2, or the genetic-screening data practical use method of Claim 3 characterized by having the stage which relates the information about the means aiming at prevention or control, and prevention of said sick recovery and advance, medicine, or food with said gene information and clinical history information, and opens it to a site.

[Claim 5] Claim 1, Claim 2, Claim 3, or the genetic-screening data practical use method of Claim 4 characterized by making a management organization into an insurance organization.

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention analyzes a gene from many men's illness or the clinical history information which does not include personal information, such as an address and a name, and relates to the genetic-screening data practical use method used for the product development for a predetermined gene, or development of medical technology.

[0002]

[Description of the Prior Art] It is said that the analysis of man's whole "a human genome" gene information has a possibility of changing present Medical Science Division from the origin in recent years. If this man's gene information is analyzed, the illness which starts easily for every man is predicted beforehand, and before showing the symptoms of the illness, it will become

possible to perform preclusive medical treatment. This method has an effect in the illness according to individual most, and the side effects can also expect very much realization of the "individually tailored medical treatment" which prescribes little medicine for the patient. Then, the electronic Karte system is shown, for example in JP,H11-353404,A (G606F19/00).

[0003] It consists of these electronic Karte systems so that it can search for the medical records of the patient concerned registered into acquisition of the medical records of other patients who have a patient's native constitution and a similar native constitution from gene information, and other medical institutions easily. So, the hospital was searched for the effective medical records as a patient's medical-examination support information etc., protecting, while making many people's chart information, genetic-screening results, etc. into the outsider from the database of huge medical records at secrecy. The hospital was searched for the medical records of the patient concerned registered into medical institutions with a patient's native constitution and a similar native constitution, such as acquisition of other patients' medical records, a health center, and a hospital, based on the information on the database which recorded these medical records, and it was using for sick medical treatment.

[0004] On the other hand, the present condition was that the inspection method still stabilized at the large sum is not established, and genetic screening is not fully understood yet socially, and is not evaluated. When the life insurance company had to carry out a large amount of medical-expenses burden when genetic screening is conducted, since a sick patient is sick medical treatment, and those who are not sick conducted genetic screening, the obligation fees of the man's genetic screening were large sums. However, there is not little what is made the importance on the medical examination of genetic screening is medically clear, and important [genetic screening about the various gene diseases or cancers of an except, such as a virulent disease, hereditary cancer, etc. of blood systems,] in the virulent disease and hereditary cancer of blood systems.

[0005] Moreover, the people with fear of the onset of a disease of a genetic disease had the high attack rate by a genetic disease, and when people with fear of the onset of a disease of a genetic disease did an insurance contract and were attacked with a disease, the life insurance company had to pay the benefit and was disadvantageous. There was also actually an example people with fear of the onset of a disease of a genetic disease had insurance subscription refused in the United States.

[0006]

[Problem to be solved by the invention] However, the application use to an elucidation, electronic Karte, etc. of the function of each gene is also possible by collecting many individuals' genes and comparing a gene. Although the validity of sick medical treatment was accepted by collecting many individuals' genes, to the individual, positive Merritt could not be easily seen. If starting genetic screening is conducted individually, while becoming genetic screening with a large sum expense burden, safeties, such as privacy, had worries. Moreover, many individuals had the problem which feels strong resistance for a medical institution and an individual providing a research institution etc. with gene information, and many individuals' gene information also had the problem which are hard to collect easily.

[0007] Moreover, the present condition was that the person who inspected a life insurance company or gene information has to perform a large sum expense burden for inspection of gene information, and ordinary patients or ordinary persons are not conducting most genetic screening. Moreover, present Medical Science Division had many fields which are treating according to as, although the doctor was said, and since most medical information will be restricted only to the medical institution, it differed in the cost of medical treatment or a treatment period by the medical institution. For this reason, it was wished that food [from what kind of illness for many individuals, he will suffer easily in the future, what kind of medicine, and] being healthily suitable and gene information should just have been known.

[0008] Moreover, in a medical institution, what kind of medicine is effective in what kind of sick gene and what kind of food being effective for a sick predetermined gene, and information were collected, and there was also a problem which I am hoping to use for sick predetermined medical treatment.

[0009] This invention is accomplished in order to solve the technical problem of the starting conventional technology, and it aims at a life insurance company, a drug company, a food company, etc. offering the genetic-screening data practical use method which can be used conveniently.

[0010]

[Means for solving problem] [namely, the genetic-screening data practical use method of invention of Claim 1] The stage where a management organization inspects individual gene information, and the stage which creates the gene information file on which gene information and the clinical history information of the individual concerned were recorded by corresponding excluding the information which specifies the individual concerned, It has the stage where a management organization provides development of Medical Science Division, medicine, and food or a manufacture organization with the gene information and the clinical history information in this gene information file.

[0011] Moreover, when an individual makes a contract of the genetic-screening data practical use method of invention of Claim 2 with a management organization in addition to the above, or when the contract is already made, the management organization concerned acquires the royalty of this gene information and the clinical history information corresponding to it while conducting individual genetic screening.

[0012] Moreover, in addition to Claim 1 or Claim 2, the genetic-screening data practical use method of invention of Claim 3 is equipped with the stage where development or a manufacture organization provides an individual with the information about the means aiming at the prevention or control, and prevention of sick recovery and advance concerning a clinical history, medicine, or food.

[0013] [furthermore, the genetic-screening data practical use method of invention of Claim 4] To Claim 1, Claim 2, or Claim 3, in addition, the stage where a management organization reports a genetic-screening result to the individual who conducted genetic screening, It has the stage which relates the information about the means aiming at prevention or control, and prevention of sick recovery and advance, medicine, or food with gene information and clinical history information, and opens it to a site.

[0014] Furthermore, in addition to Claim 1, Claim 2, Claim 3, or Claim 4, the genetic-screening data practical use method of invention of Claim 5 makes a management organization an insurance organization again.

[0015]

[Mode for carrying out the invention] Next, based on Drawings, the embodiment of this invention is explained in full detail. A block diagram for drawing 1 to explain the genetic-screening data practical use method of this invention and drawing 2 show the figure showing the example of composition of the network 21 of the genetic-screening data practical use method of this invention, respectively.

[0016] 11 in a figure is a database server and the database 14 which can be searched with a computer 12 is formed in this database server 11. While the gene information file 15 on which much the individual's 17 gene information and clinical history information which do not include the information which can specify the individuals 17, such as an address and a name, in this database 14 were recorded by corresponding is formed The personal information file 16 on which the information of the individual 17 of a large number including the information which can specify the individuals 17, such as an address, a name, sex, age, and family structure, was recorded is formed.

[0017] And it corresponds to a database 14 at the gene information file 15 (each individual's 17 gene information and clinical history information), respectively. When the personal information files 16 (an address, a name, sex, age, family structure, etc.) are formed and search the gene information file 15 from the network 21 mentioned later, the personal information file 16 is constituted so that it may not see. In addition, input devices, such as a keyboard 13 and a mouse (not shown), are connected to the computer 12.

[0018] Moreover, the database server 11 is connected to the network (Internet network in this case) 21, and many terminal computers 22 are connected to the network 21. Each man by whom this terminal computer 22 has joined the Internet network 21 is constituted usable, respectively.

[0019] On the other hand, if the patient's sick cure is known when it is going to diagnose and treat a patient in medical institutions, such as a health center and a hospital, the means which should be treated will also be decided naturally. However, although it is said that common DIJIZU (common disease) generated more extensively, such as rheumatism, diabetes, and asthma, are based on a delicate variation of many genes, a sick cause is complicated and it is being solved little by little, the present condition is that still is not clear. Therefore, unless the symptoms of illness develop, diagnosis of common DIJIZU is very difficult.

[0020] In particular, when a sick cause was indefinite, the doctor could not but depend on the past case on the occasion of diagnosis or medical treatment. Then, to say nothing of referring to the medical records of other patients with a native constitution similar to the patient in the present medical examination, a history of life, a clinical history, etc., when collecting cases, the patient's native constitution is made into the item most important when deciding diagnosis of a patient and the indicator of medical treatment. Usually, when the medical records of a patient with a similar native constitution were collected, in order to presume a constitution, many men's medical records had to be seen.

[0021] So, in this invention, the management organization 10 which can collect is formed for genetic-screening data in large quantities. This management organization 10 manages by utilizing a lot of collected genetic-screening data. First, the management organization 10 signs an information service contract with the drug company 19, the food company 20, the life insurance company 18, etc., and performs database construction of the gene information file 15, the personal information file 16, etc. from the gene information of many individuals 17 who are medical institutions and were inspected. And while the management organization 10 selects the individual 17 with a predetermined gene required for development of a new medicine by the request of drug company 19 grade and gets an income by the broking business to mediate By the request of food company 20 grade, the individual 17 with a predetermined gene required for development of the new food of the onset-of-a-disease prevention from a specific gene is selected, and an income is obtained by the broking business to mediate. In this case, if comprehension of an individual 17 is obtained, agency will be performed, but agency is not performed if comprehension of an individual 17 is not obtained.

[0022] That is, the management organization 10 creates the gene information file on which the gene information of the individual 17 inspected by the medical institution and the individual's 17 clinical history information were recorded by corresponding. And they are development of Medical Science Division, medicine, and food or a manufacture organization (in this case) based on the gene information and the clinical history information in the gene information file which does not include the information which specifies an individual 17. the food company 20 which performs manufacture and sale of food including the hospital which performs sick inspection and medical treatment, the drug company 19 which performs development and sale of medicine, a farm management person, etc. -- etc. -- [genetic-screening data / onerous or onerousness / offer and] Management of the management organization 10 is performed by the profit which performed product development for a predetermined gene, development of medical technology, etc., and performed advertisement, sale, etc. from the illness of the individual 17 of a large number by a medical institution, or the analysis result of clinical history information.

[0023] Next, the concrete practical use method of genetic-screening data is explained. In addition, an insurance organization shall perform the management organization 10. Moreover, an insurance organization says insurance organizations, such as a local health insurance established in insurance organizations, such as life insurance, and mail insurance, agricultural cooperative association insurance, and an area, etc. (the life insurance company 18 explains these insurance organizations henceforth). [and the life insurance company 18 (management organization 10)] It ties up with medical institution and drug company 19 and food company 20 grade, and genetic screening of the individual 17 of a large number which conduct genetic screening of many individuals 17 who signed the insurance contract with the life insurance company 18 (management organization 10) and which have both already performed the insurance contract is conducted gratuitously. And where data and genetic-screening information, including the address of the individual 17 of these large number, a name, sex, age, clinical history information, family structure, etc., are associated, it is accumulated in a database 14.

[0024] And it carries out based on much gene information and clinical history information which were accumulated in the database 14 in the medical institution. The relation between the patient of a similar constitution and a predetermined gene is analyzed (the relation between gene information and illness is solved from the gene information and the clinical history information that an individual 17 cannot be specified in this case, and accumulated in a

database 14). The illness which is likely to start in the future from the relation of the gene information and illness which were analyzed is solved, and the sick curative medicine article which is likely to be applied in the future in the manufacture organization of drug company 19 and food company 20 grade or the medicine to deter, food, etc. are developed.

[0025] The life insurance company 18 (management organization 10) is the site (in this case) of a network 21 about the advertisement of the sick curative medicine article solved with gene information or the medicine to deter, food, etc. it is also called what is called a homepage that will appear if the address on the Internet is accessed using the search engine called WWW -- **** -- it publishes. In this case, the relation only between the gene information which cannot specify the individual 17 except an address and a name with a similar constitution, and illness is opened to the site of a network 21.

[0026] That is, he is trying for the life insurance company 18 (management organization 10) to acquire the right only for the gene information and clinical history information to be utilizable instead of conducting an individual's 17 genetic screening gratuitously at the time of the insurance contract of the life insurance company 18 (management organization 10). Thereby, the individual 17 becomes possible [also performing prophylaxis which is likely to start in the future] while being able to know his gene information, without being forced a large sum expense burden by carrying out an insurance contract. Moreover, the individual 17 can search and find out the gene information which suited itself in the information opened to the site of the network 21, and can also use for health care administration. The life insurance company 18 (management organization 10) can collect much gene information now easily by providing such service for the individual 17 who performed the insurance contract.

[0027] On the other hand, when drug company 19 and food company 20 grade assemble the person who had a predetermined gene by the clinical test etc., If the life insurance company 18 (management organization 10) is requested, the life insurance company 18 (management organization 10) will search the database 14 which can specify an individual 17. Those who correspond from the gene information file 15 and the personal information file 16 are searched, it contacts, and the individual 17 who had a predetermined gene after obtaining comprehension of the individual 17 who corresponds beforehand is introduced to drug company 19 and food company 20 grade. In this case, when using an individual's 17 gene information by the life insurance company 18 (management organization 10), it does not carry

out whether it contracts by being (offer) also until it opens, but since it is performed by judgment of an individual 17 what kind of gene information is offered, the problem of ethics is protected. An individual's 17 privacy will be protected certainly by this.

[0028] And if the relation between a specific gene, and its gene and illness is opened to the site of a network 21, those who have joined the network 21 can see those information from the terminal computer 22. Since the illness which is likely to find out its gene information and is likely to start in the future from the relation between the specific gene opened to the site of the network 21, and its gene and illness can be foreknown Before showing the symptoms of the illness foreknown by inspecting in a medical institution, while being able to perform health care administration, it can treat at an early stage in a hospital.

[0029] When the above, the life insurance company 18 (management organization 10), and an individual 17 make an insurance contract, the life insurance company 18 (management organization 10) is requested from medical institutions which have contracted, such as a doctor or a hospital, and an individual's 17 medical checkup is performed. By this, if the individual 17 is healthy, an insurance contract will be concluded. Moreover, in the case of a medical checkup, if an individual's 17 permission is obtained, genetic screening will be conducted from people's cell etc. The life insurance company 18 (management organization 10) is memorized and accumulated in a database 14, where the address of this gene information and an individual 17, a name, sex, age, family structure, an individual's 17 clinical history information, etc. are associated. In addition, the gene information solved with the natural thing is reported to the individual 17 who did the medical checkup.

[0030] Thus, the life insurance company 18 (management organization 10) offers and manages the relation between the patient of a similar constitution and clinical history information which were solved by drug company 19, the food company 20, etc. in the medical institution, and a predetermined gene for counter value. And drug company 19, the food company 20, etc. which received offer develop the sick curative medicine or the food which is likely to be applied from the information (gene information) and clinical history information on these genes in the future, and accumulates in a database 14. While opening the relation of the specific gene information and illness which became clear from the gene information accumulated in the database 14, and the clinical history information (the illness whose symptoms is likely to be beforehand shown by the analyzed gene information is included)

relevant to this gene information to the site of a network 21 A curative medicine or food is opened to a site. By this, it can have a specific gene, cautions can be demanded from the individual known, the healthy person can perform now immediately sick management which is likely to start in the future, and it becomes possible to reduce the rate which becomes sick. Moreover, by performing early treatment, those whom a light condition has already generated can reduce the cost of medical treatment by hospitalization etc., or can shorten duration of hospitalization. Thereby, the life insurance company 18 (management organization 10) can make the burden of the cost of medical treatment by hospitalization etc. ease, and every time it forces, it can reduce people's charge of an insurance contract.

[0031] Moreover, an individual only signs an insurance contract with the life insurance company 18 (management organization 10), and can know his gene information easily, and it becomes possible to purchase the useful information offered based on the information, and goods. Moreover, since the third party can see freely on a site, as for the gene information opened to the site, he can perform sick management where a healthy third party is likely to look at a site and which is likely to start in the future at an early stage.

[0032] Moreover, the drug company 19 contracts with a medical institution and the life insurance company 18 (management organization 10), develops prophylaxis medicine or a curative medicine article, and advertises and (the relation, its specific prophylaxis medicine, and the specific curative medicine article of a gene and illness are publicly announced in this case) advertizes to the site of a network 21. [the individual who has joined the Internet network 21 / site / of a network 21] and by seeing a public notice Before finding the sick information which is likely to start to its gene information in the future and showing the symptoms of the illness, while becoming possible to prevent by purchasing a preventive medicine, the person who was attacked with a disease can purchase a curative medicine article, and can perform sick medical treatment.

[0033] Namely, since the life insurance company 18 (management organization 10) is made to inspect by being inherited gratuitously at the time of an insurance contract While becoming possible to collect much gene information easily, the medical institution can further efficiently product development, such as a sick curative medicine for the person who had specific gene information based on much gene information, and diet medicine. Thereby, the life insurance company 18 (management organization 10), the drug company 19, the food company 20, etc.

can acquire now profits, such as sale of medicine, food, etc., and an advertising rate.

[0034] moreover, the life insurance company 18 (management organization 10) not only conducts an individual's 17 genetic screening, but [the life insurance company] [or] while offering how others themselves face each other to their gene to the result of genetic screening on the Internet etc. at the site of a network 21 By publishing the advertisement of medicine, food, etc. which improves a gene, information service of the goods for people with a predetermined gene can be carried out to the people, and advertising revenue can be obtained now.

[0035] Moreover, even if the advertisement published by the site on the Internet used for the its company activity introduction by private enterprises including the information service by the government organization or a self-governing body, PR of goods, dispatch of the information by an individual 17, etc. is not interested in people, most is merely published vaguely. Then, if the information related to an individual's 17 gene is published by the site of a network 21, the interest which does not become a thing compared with former will be excited, and more nearly big-ticket advertising revenue is expected.

[0036] on the other hand, the individual 17 who did the insurance contract and grasps his gene information although the symptoms is not shown yet -- or The individual 17 who grasps his gene information in other medical institutions checks the relation between the specific gene exhibited at the site, its gene, and illness, and the illness which will carry out the late-coming disease now is grasped in advance beforehand, before showing the symptoms of the illness, it prevents, and it becomes possible to perform health care administration.

[0037] And the life insurance company 18 (management organization 10) can utilize genetic-screening data now for practical use owner profit by analyzing gene information from illness or clinical history information, and managing the product development for a predetermined gene, development of medical technology, etc. Thereby, the drug company 19 and food company 20 grade become possible [registering into a database 14 the information on the medicine developed from gene information and clinical history information, food, etc., and advertising to the site of a network 21]. Thereby, the life insurance company 18 (management organization 10), the drug company 19, the food company 20, etc. can acquire now profits, such as sale of

medicine, food, etc., and an advertising rate, like the above-mentioned.

[0038] In addition, in the work example [the life insurance company 18 (management organization 10)] It does not interfere, even if it conducts not only this but genetic screening for counter value (it does not interfere even if the life insurance company 18 (management organization 10) shares genetic-screening expense and eases the burden of individual genetic screening in this case), although it was made to conduct genetic screening gratuitously in a medical institution at the time of an insurance contract.

[0039] Moreover, although the life insurance company 18 explained the management organization 10, even if the drug company 19, the company which conducts analysis of a gene, the food company 20, etc. perform not only this but the management organization 10, it does not interfere. Moreover, it does not interfere with the form executed [which executed by proxy and entrusted the part] by proxy, either.

[0040]

[Effect of the Invention] The stage where a management organization inspects individual gene information according to invention of Claim 1 as explained in full detail above, The stage where gene information and the clinical history information of the individual concerned create the gene information file recorded by corresponding excluding the information which specifies the individual concerned, Since it has the stage where a management organization provides development of Medical Science Division, medicine, and food or a manufacture organization with the gene information and the clinical history information in this gene information file When an individual contracts with a management organization like Claim 2, or when the contract is already made, the management organization concerned can acquire the royalty of this gene information and the clinical history information corresponding to it while conducting individual genetic screening. It becomes possible to develop Medical Science Division, medicine, and food which can perform sick medical treatment with a predetermined gene by an insurance organization's creating the gene information file which does not include the information which specifies an individual, and providing a manufacture organization with this gene information file by this. Therefore, it becomes possible to develop Medical Science Division, medicine, and food of a predetermined gene, and to sell, where individual privacy is protected. An insurance

organization and a manufacture organization are the light things which can make it recover, without going to a hospital if sick, and can increase a profit now further.

[0041] While especially an insurance organization conducts gratuitously genetic screening of the individual who made the insurance contract Since the resistance of individual genetic screening can be softened by protecting individual privacy, while being able to expect many policyholders now further, much gene information can be collected easily.

[0042] Moreover, [the medical information almost restricted only to the medical institution like before] since it can increase sharply since sick medical treatment can be performed from much gene information and clinical history information Exact medical treatment can be known now for the medical treatment which was performing according to as that the cost of medical treatment and a treatment period changed with medical institutions although the doctor was said like before while becoming possible to prevent certainly from much gene information and clinical history information.

[0043] According to invention of Claim 3, to Claim 1 or Claim 2 Moreover, in addition, the sick recovery which requires development or a manufacture organization for a clinical history, Since it has the stage of providing an individual with the information about prevention or the means aiming at control *****, medicine, or food of advance, the optimal medicine or the food for the sick recovery can be given by inspecting the gene information of the person who became sick. Thereby, the illness of people with a predetermined gene can be treated now for a short period of time. Therefore, it can prevent now beforehand that a patient's illness becomes a serious condition, and an insurance organization and a sick patient can ease a cost-of-medical-treatment burden sharply, and can increase a profit now.

[0044] According to invention of Claim 4, to Claim 1, Claim 2, or Claim 3 Furthermore, in addition, the stage where a management organization reports a genetic-screening result to the individual who conducted genetic screening, Since it has the stage which relates the information about the means aiming at prevention or control, and prevention of sick recovery and advance, medicine, or food with gene information and clinical history information, and opens it to a site By comparing with one's gene information the gene information opened to the site, when those who signed the insurance contract with the insurance organization and know

their gene information by acting as an insurance organization of the management organization like Claim 5 become sick While becoming possible to get to know the name of a disease whose symptoms is shown, or the exact name of a disease which will carry out the late-coming disease now, a drug company, a food company, etc. become possible [registering into a database the information on the medicine developed from gene information and clinical history information, food, etc., and advertising to a site]. Therefore, while Medical Science Division, medicine, food, etc. which suited their gene most from the site where the privacy of the individual who offered gene information and clinical history information was protected are chosen and the thing whose symptoms is shown and for which it is and illness is recovered quickly becomes possible The sick onset of a disease which will carry out the late-coming disease now can be beforehand prevented now.

[0045] Since especially the individual can take now the meal or medicine which compares with its gene information the gene information and the clinical history information which were opened to the site, and is not easily taken illness While being able to prevent now beforehand the illness which will be caused in the future, if it has predicted beforehand even when illness breaks out, it corresponds promptly, and early recovery can be carried out and healthy promotion can be performed sharply.

[Brief Description of the Drawings]

[Drawing 1] It is a block diagram for explaining the genetic-screening data practical use method of this invention.

[Drawing 2] It is the figure showing the example of composition of the network of the genetic-screening data practical use method of this invention.

[Explanations of letters or numerals] 10 Management Organization 11 Database Server 12 Computer 13 Keyboard 14 Database 15 Gene information file 16 Personal information file 17 Individual 18 Life insurance company 19 Drug company 20 Food company 21 Network 22 Terminal computer

[Translation done.]